



BHARAT HEAVY ELECTRICALS LIMITED
HEEP: HARDWAR-249 403 (UA)
Fax: 01334-226462, Phone: 01334-28-5021
E-mail : saurabhv@bhelhwr.co.in

(17)

Due Date: 27/01/2022

Ref: PPX/EM/EOI/20-21/DIFFERENTIAL PRESSURE REGULATORS

Notice Inviting Expression of Interest for empanelment of New Vendors

The Heavy Electrical Equipment Plant (HEEP) located in Haridwar, is one of the major manufacturing plants of BHEL. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators, hydro turbines and generators and so on. **We are looking for reputed Vendors having capability to supply differential pressure regulators used to regulate seal oil pressure in the seal oil system used for Large Size Turbo Generators (rating >250 MW).** DPR is utilized for regulating the seal oil pressure being supplied to shaft seals in relation to gas pressure in generator, keeping a constant differential pressure between seal oil and gas under all regimes of operation. The differential pressure shall be designed such that increase of gas pressure on the actuator shall lead to open the valve further so as to increase the oil pressure corresponding to the gas pressure. Further, the setting of differential pressure can be adjusted with the help of spring compression.

The specification of these items may be obtained from BHEL after submission of Ink Signed Non-Disclosure Agreement (Annexure-2 - Indigenous vendors, Annexure-3 – Foreign vendors). The Non-Disclosure Agreement is to be submitted to the following person (s) for obtaining Specifications:

Contact Person 1:

Mr. Rajpal Singh
Designation: Manager (PPX/EM)
Email ID: rajpal@bhel.in
Tel: +91 1334 28 1921

Contact Person 2:

Mr. Saurabh Verma
Designation: Sr. Engineer (PPX/EM)
Email ID: saurabhv@bhel.in
Tel: +91 1334 28 5021

The offers received will be technically evaluated by BHEL & successful short listed parties will be asked to submit their detailed Techno-Commercial offers through formal NIT/Enquiry, for our future requirements. Vendors shall confirm that there is no deviation with respect to BHEL Specifications. However, deviations, if any, are to be listed as a separate attachment. The offers that do not meet the substantial requirements of our specifications are liable to be ignored. **Following documents are to be necessarily filled and submitted along with the technical offer:**

1. Details/ Documents in support of Pre-Qualification Requirement (Annexure-1, Page-3)
2. Non-Disclosure Agreement / Framework Confidentiality Agreement cum Undertaking (Annexure-E).
3. Supplier/Vendor Registration Form (for Indigenous/Foreign as applicable available at www.hwr.bhel.com)
4. Quality control documents / procedure.
5. Details of Manufacturing Facility
6. Company Profile.
7. Financial report of the company.
8. Past experience along with documentary proof.
9. Details such as technical features, experience details, product catalogue, reference list or any other relevant information.
10. List of equipment's manufactured in-house.
11. List of Bought Out items along with vendors list of each equipment's with experience details with respect to size rating and years of operation.

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Only Technical BID along with the documents mentioned above should be sent & the envelope containing the offer shall be duly sealed and super scribed as "EOI / Technical Offer for (ITEM NAME) AGAINST Reference No. PPX/EM/EOI/20-21/DPR, SUBMITTED BY (Name of company)"

The last date for submission of Technical offers is 27.01.2022.

- Last date for downloading tender documents shall be 27.01.2022 till 13:45 Hrs (IST). The Technical Offers complete in all respect must be addressed to "Shri Ashish Jain, AGM (PPX/EM), 4th Floor, Tender Room, Main ADM Building, HEEP-BHEL, Haridwar-249403, Uttarakhand" and should reach before 1345 Hrs (IST) on 27.01.2022. Tenders will be opened on the same day at 1400Hrs (IST) in the Tender Room.
- Late offers will not be considered in any case. BHEL will not be responsible for any type of postal delay / incomplete information from vendor.
- EMD & Tender fee are not applicable.
- The Quotation should be from the Principle / Original Manufacturer, falling which the Quotation is likely to be ignored. In case the quotation is submitted through agent, the quotation must accompany original authorization letter from Principle / Original Manufacturer.
- Amendments / Corrigendum, if any, will be hosted on our website only.
- For any further clarifications, feel free to contact the undersigned or log on to www.bhel.com or www.bhelhwr.co.in or www.tenders.gov.in

(Saurabh Verma)
Sr. Engineer (PPX-EM)
saurabhv@bhel.in



Due Date: 24/01/2022

ANNEXURE-1

PQR/EME/TG038/001

dt. 21.09.2021

Mandatory Pre-Qualification requirements for Differential Pressure Regulator
(W90414905474: TG60662)

Description

The DPR is used in the Seal oil skid for hydrogen cooled generators. DPR is utilized for regulating the seal oil pressure being supplied to shaft seals in relation to gas pressure in generator, keeping a constant differential pressure between seal oil and gas under all regimes of operation. It should be of very reliable and proven design to maintain the required seal parameters under all conditions, so that hydrogen gas cannot escape, which may otherwise lead to a major accident.

Mandatory requirement for Pre-Qualification

1.0 Experience Requirement -

The Vendor should be a regular manufacturer or authorized dealer of such Differential pressure regulator. Vendor should have supplied at least Five (5) nos. Differential pressure regulator in last Five (5) years (from the date of issuance of enquiry) with following technical details -

Sl no.	Product features	Details
1.	Design Pressure	16 kg/cm ² & above
2.	Nominal Size	65NB & Above
3.	Differential pressure set range	0 - 3.0 kg/cm ² (Minimum)
4.	Flow Coefficient (Kvs)	50 & above
5.	Flow medium	Turbine oil grade ISO VG46 only.

In support of above, vendor to furnish information, as per the following format for previous supplied Differential pressure regulator meeting the above technical requirement for the past Five (5) years from the date of issuance of enquiry.

Sl. No.	Name & address of customer	Contact Details of the customer (email & phone number etc.)	Purchase order reference no.	Purchase order issue date	Design Pressure	Design Temperature	Flow Range	Maximum Permissible Differential pressure	Material of construction of Body, Flange, Trim (Plug, Seat & Stem)

Vendor to submit the following documents as an evidence of acceptance of supplied Differential pressure regulator, for the above mentioned successfully executed order -

- a) Vendor to furnish copy of Un-Priced Purchase Orders executed for supply of at least 5 Nos. of Differential pressure regulators in last Five (5) years (from the date of issuance of enquiry).
 - b) Vendor to furnish the test certificate for Differential pressure regulator as per DIN EN 12266/ANSI ISA 75.19.01/ANSI FCI 70-2 /EN 60534 for any one of the PO submitted. The submitted test certificates should have co-relation with PO.
 - c) Vendor to furnish final acceptance certificate of Differential pressure regulator (for supplied at least 5 Nos. of Differential pressure regulators in last Five (5) years) from End customer/Third Party for PO's submitted. Acceptance certificate should contain information like item details, Quantity accepted and should also have correlation with PO reference no.
- 2.0 In case of Authorised Distributor, vendor to furnish the Authorisation certificate from OEM (original equipment manufacturer).

Note - BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false / incorrect, the offer shall be rejected.

Approved by:
Amit Mittal
(DGM-EME)

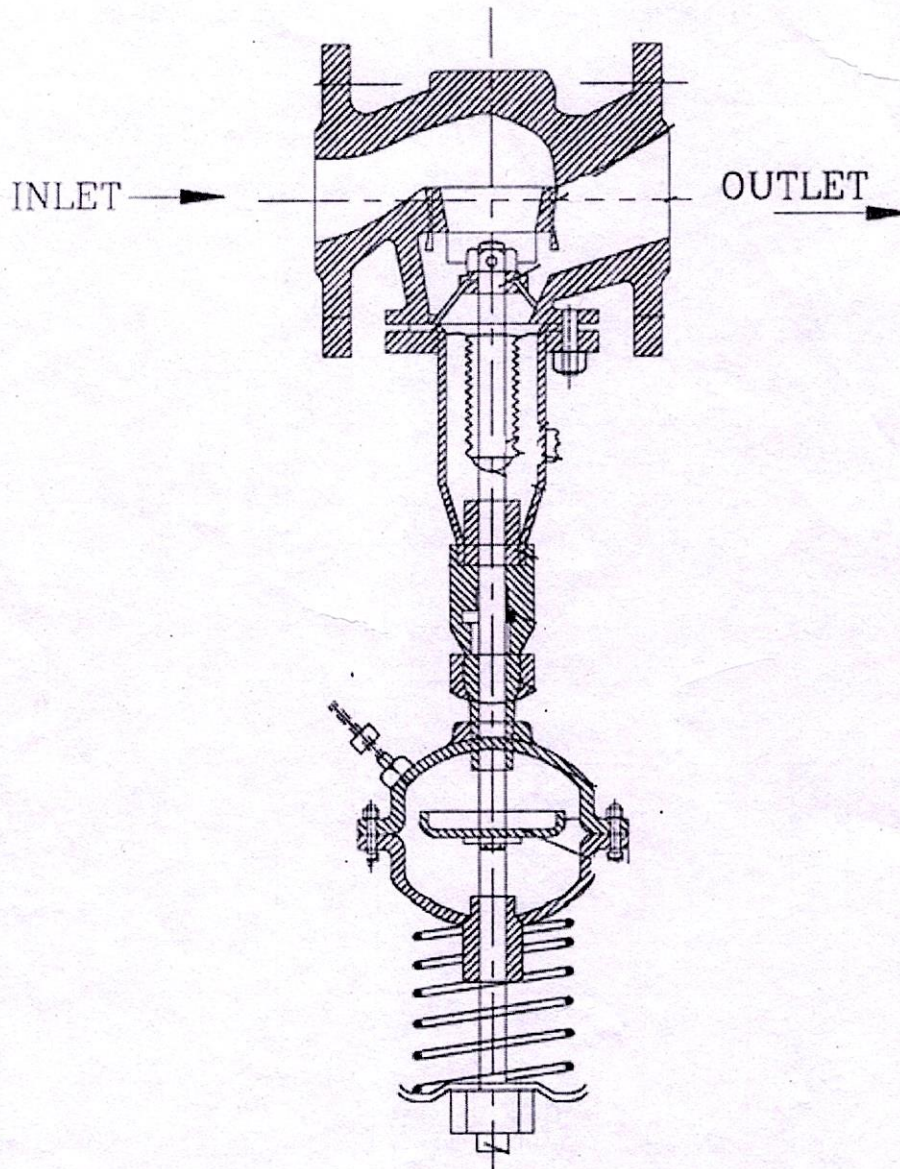
Checked By:
Manju Azad
(Sr. Mgr.-EME)

Prepared By:
Kunal Mishra
(Dy.Mgr.-EME)



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DESIGN PRESSURE= 16 kg/cm²
DIFF. PRESSURE SET RANGE= 0-3 Kg/cm²
OIL FLOW COEFFICIENT Kvs= 50
FLOW MEDIUM = TURBINE OIL GRADE ISO VG46
BODY MATERIAL = CAST CARBON STEEL GS-C25
SEAT MATERIAL = STAINLESS STEEL (1.4006)